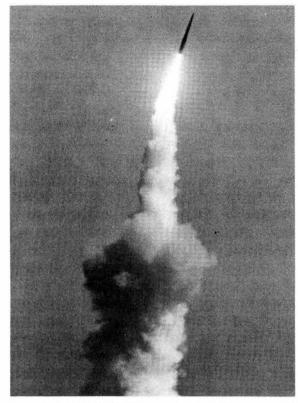
# \*LAB NEVS

VOL. 32, NO. 22 OCTOBER 31, 1980

SANDIA NATIONAL LABORATORIES • ALBUQUERQUE NEW MEXICO • LIVERMORE CALIFORNIA • TONOPAH NEVADA

## Surplus Missiles Used as Test Beds in RV Development



SURPLUS MINUTEMAN carries aloft three small re-entry vehicles, simultaneously testing a variety of nosecones, ablation materials, antenna arrays and arming and fuzing system components under the same environmental conditions.

## FY '80 Payroll Figures Announced

Sandia's payroll for fiscal year 1980, which ended Sept. 30, amounted to \$165.5 million at Sandia Albuquerque and \$26.8 million at Sandia Livermore. For FY '79, these figures were \$148.1 million for Albuquerque and \$23.8 million for Livermore. Salaries of some 80 Sandia employees at Nevada Test Site and Tonopah Test Range (Nevada) are included in the Albuquerque figure.

At the end of FY '80 there were 7848 on roll, including 1055 at Livermore. The total is about 230 more than at the end of FY '79.

Assets of the Department of Energy's installations operated by Sandia totaled \$472.8 million at the end of FY '80, compared to \$436.5 million in FY '79. These figures represent undepreciated value of buildings and facilities at Albuquerque and Livermore and at Tonopah Test Range.

Purchases by Sandia in New Mexico amounted to approximately \$79 million for FY '80. About 98.5 percent of the amount, or \$77.8 million, went to Albuquerque firms. Purchases from other DOE contractors are not included. Purchases in the state in FY '79 amounted to \$80.5 million.

In a recent test series, Exploratory Systems Department 5620 measured reentry effects on a proximity fuze, three types of nosetips and heat shields and two types of telemetry windows.

On the surface, this would seem to be a fairly normal test series. What makes it unusual is that every one of the tests was conducted simultaneously and under exactly the same environmental conditions.

To find out how, we talked with Don Rigali, who heads Exploratory Systems Division 5623.

"A test series like the one you just described used to take years to complete," Don told us. "You'd fire a missile with one RV aboard and measure the effects of re-entry on one element in the system—for example, the nosetip of the vehicle. Months later, you'd do another shot using the same component, maybe in a different shape or made of a different material. Comparing data on the two tests was an apples and oranges situation. The RVs almost always encountered different reentry or weather conditions—rain, clouds, clear sky, different air densities. You never

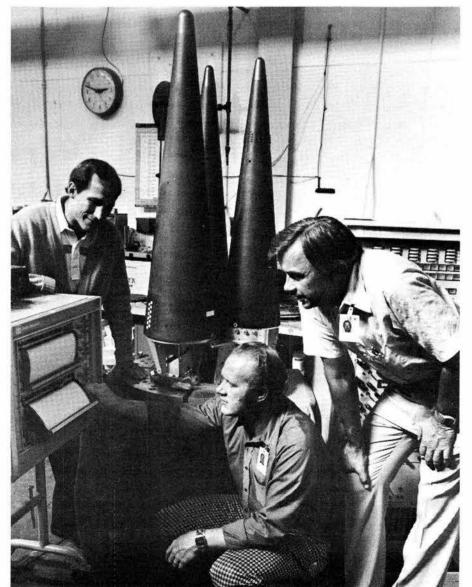
really knew how the materials and shapes would behave under exactly the same conditions. As an exploratory systems group, we set out to find a better way."

The better way calls for use of surplus Minuteman I missiles to carry aloft a number of small RVs scaled in size and weight to duplicate the performance of full-scale RVs.

"With three or four RVs on the same missile," Don says, "we can test several nosecones, a variety of ablation materials, antenna arrays, arming and fuzing system components, telemetry/instrumentation systems components—just about anything you want."

To date, Division 5623 has flown four such payloads, three in clear weather and one into severe weather conditions as part of the Advanced Nosetip Test Program Sandia is carrying out for the Air Force's Advanced Ballistic Re-entry Systems Group. Three nosetips of the same design, but of different materials, have also been tested in clear air and in characterized weather, which means ground radar and aircraft aloft carefully measure and define the weather conditions encountered by the

(Continued on Page Four)



THREE SMALL RE-ENTRY vehicles, scaled in size and weight to duplicate the performance of full-scale RVs, are checked out by (left to right) Bob Stearley, Marlyn Sterk and Ron Johnson, all of Exploratory Systems Division 5623. Each RV carries a number of weapon components and systems of different designs and materials. By launching all three aboard the same missile and exposing all three RVs to exactly the same environmental conditions, an entire test series can be run at one time.

## Afterthoughts

Those bad words—A friend called and suggested I write something about profanity and its common usage in our work areas. He assumed I am anti-profanity, which I am not, neither am I pro-profanity. When you work with words, you develop a clinical attitude toward them and toward language in general, regarding both with the detached interest of a botanist examining a new leaf. From that lofty view—point, a word is neither "good" nor "bad," only more—or—less interesting, and most profanity is uninteresting—and ineffective—because of overuse. When the epithet son—of—a-bitch is applied generously to oneself ("Well I'll be a etc.") as well as to other people (friends and otherwise), there's a certain diminution of impact. I find it interesting that many women today unblinkingly exercise their prowess with the conventional obscenities and scatologia in all companies, but it's not the hackneyed phraseology that interests—it's the fact of usage and what it denotes.

Perhaps the best argument for frugality in the use of certain "bad" words runs along this line. If you employ a certain four-letter expletive that begins with "s" every time you get a busy signal on the phone or confront some other infinitesimal irritation, well what in hell are you going to use when you're crossing the Golden Gate bridge during the rush hour and get a flat?

Just like Mom's--We happened to note a few of the ingredients on a frozen "lemon cream" pie recently: hydroxpropyl cellulose, polysorbate 60, sodium stearoyl-2-lactylate, xanthan gum, whole wheat flour (how did this get in here?), artificial flavor, monosodium phosphate, glyceryl-lacto esters of fatty acids, guar gum, lecithin, artificial color, soldium sulfite. Yummy.

Metric can be fun--A self-service gas station in California which recently converted to liters reports the following reaction from one motorist: "I can't take liters--this car has standard shift."

## **Apprentices Graduate**

Apprentices from three different trades were graduated recently in ceremonies held in the theater in Bldg. 815. They included eight machinists, six electronics technicians, and three materials processing technicians who completed their five years of training in the apprenticeship program. Three additional electronics technicians completed a four-year program to satisfy state requirements; they will continue training for one more year to satisfy Sandia's requirements.



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barry schrader & lorena schneider report livermore.

Two class members, Judy Loving and Jean Williams are the first women to complete apprentice training as machinists.

Those graduating include the following: as machinists, Tom Archuleta, Carl Brezowski, Fred Hooper, Jesse Kanniainen, Judy Loving, Joe Padilla, Willy Vonderheide and Jean Williams; materials processing, Bill Morgan, David Staley and Joe Kubas; electronics (5-yr.), Andy Brito, Barbara Vonderheide, Pete Manley, Gilbert Polaco, Ken Ystesund and David Sparks; electronics (4-yr.), Gilbert Lucero, Johnny Rice and Steve Barnard.



## Supervisory Appointment



ANN HOGAN to supervisor of Education and Training Division 3523, effective Sept. 16. Ann's first assignment, after joining the Labs as a technical writer in September 1976, was to develop a course in report writing for INTEC (In-Hours Technical Education Courses); she continues to teach the course. Two years ago, Ann transferred to the Equal Opportunity and Affirmative Action division where she helped prepare the affirmative action plan, developed and conducted AA workshops, and served as women's program coordinator.

Ann earned her undergraduate and master's degrees in English from UNM and has done post-graduate work at Cornell. Before coming to Sandia, she was an instructor in the English department at UNM. She also taught at the State University of NY, served as that school's first affirmative action officer and, as director of inmate education, developed and ran a two-year degree program for men in a maximum security prison.

Ann is a member of the Modern Language Association, the College Conference on Composition and Communication, and the National Council of Teachers of English. She and her husband Robert (4543) have three children. They enjoy traveling and are avid symphony and theater fans.

A FIRST—Judy Loving and Jean Williams (both 1481) are the first women to complete Sandia's fiveyear machinist apprentice program.

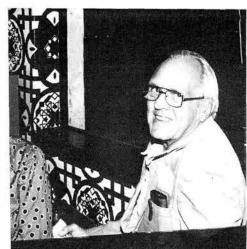












LIVERMORE RETIREES GATHERED at Castlewood Country Club recently for their annual get-together, the largest turnout since the event began 15 years ago. This year's attendee with the longest Sandia service was Hilt DeSelm. Retirees

shown (clockwise from top) are: Howard Schmalle and wife Lucille, John Pierce with Morgan Sparks, Bill Funk, Kathy Callow, Eloise Perry, Elwood Ingledue and Ralph Jaeger.

#### Congratulations

Glenda Coffeey (8266) and Michael Ross, married in Pleasanton, Sept. 27. Mr. and Mrs. Fred Johnson (8423), a daughter, Candice Simone Eliia, Sept. 19.

## LIVERMORE NEWS

VOL. 32, NO. 22

LIVERMORE LABORATORIES

OCTOBER 31, 1980

#### Sympathy

To Max Schell (8463) on the death of his father in Pocatello, Ida., Aug. 28.

To Henry Hanser (8445) on the death of his mother in Manteca, Calif., Sept. 6.

To Danny Mitchell (8111) on the death of his father-in-law in Oregon, Sept. 6.

To Jim Kersey (8153) on the death of his sister in San Francisco, Oct. 2.

To John Smith (8271) on the death of his father in Tracy, Calif., Sept. 26.

To Bruce Worden (8465) on the death of his mother in Parma, Ohio, Sept. 21.

#### Death



Dez Brown, a technical staff assistant in Materials Development Division I 8312, died Sept. 22 after an illness. He was 65.

He had worked at Sandia Livermore since 1959

Survivors include his widow, two sons and mother.

## **Take Note**

Sandians from Livermore were active in the DOE Solar Central Receiver semiannual meeting Oct. 14-15 in San Francisco. Al Skinrood (8425) chaired the first day's session, while Pat Eicker (8451) and Bill Wilson (8453) chaired the second day's program. Also speaking at the meeting were Mim Fish (8326), Larry Brandt (8328), Cliff Schafer (8453) and John Kraabel (8124).

Four Livermore employees recently completed SNLL's apprenticeship programs, which included on-the-job training and related academic courses. They are Steve Halleck, Fred Perez and Bob Sandoval (all 8257) who are now labora-

tory maintenance specialists, and Susan Gancas (8424), now a technical staff assistant in electronics fabrication.

A new program is underway at Sandia Livermore to study the corrosion process in advanced coal-fired gas turbines with the aim of developing protective barriers and coatings. Deterioration of turbine blade materials and coatings due to hot corrosion is a major problem. Sandians Bob Benner, Roger Farrow and Peter Mattern (all 8342) of the Applied Physics Division, and Alan Nagelberg (8313) of Materials Development Division have demonstrated the use of laser Raman spectroscopy to study multi-phase alloy oxide films.



Buy U.S. Savings Bonds.

#### Surplus Missiles Used As Test Beds

RVs-the density, water content, water particle size, etc.

"Because test vehicles impact near the highly instrumented facility at Kwajalein Missile Range," Don explains, "we've had to restrict re-entry velocity to about 22,000 fps-which is considerably below the maximum booster capability of 25,000 fps. By using additional ballast in the Advanced Nosetip RVs, however, we've had the vehicles perform the same during the slower re-entry as a non-ballasted vehicle would at maximum re-entry speed.

"Besides the ANT program," Don adds, "we've got three other programs for the Air Force, one involving testing of re-entry system components and the other two involving the soft recovery of re-entry vehicles.'

In a recent system component test, a proximity fuze that functioned close above the water was tested at speeds over 10,000 fps. In another, a full-scale RV, mounted on an ICBM, was fired from Vandenberg Air Force Base and soft recovered near Kwajalein. The entire test program took less than a year.

"Our ability to respond quickly in that case," Don says, "helped the Air Force select the right heatshield for an RV about to go into production."

Two follow-up flight tests of multiple vehicles, one in clear air and one in characterized weather, are scheduled for next year. These tests are part of the Interim Recovery System program and one high-performance vehicle on each test will be soft recovered.

Another major exploratory systems program is designing and building targets for the Army Ballistic Missile Defense Agency, targets for testing their new ballistic missile defense techniques.

"Some of these targets will be used in a program called HOE (Homing Overlay Experiment)," Don explains. "These will be full-scale demonstrations by the Army of a non-nuclear system to intercept and destroy incoming RVs before they enter the atmosphere."

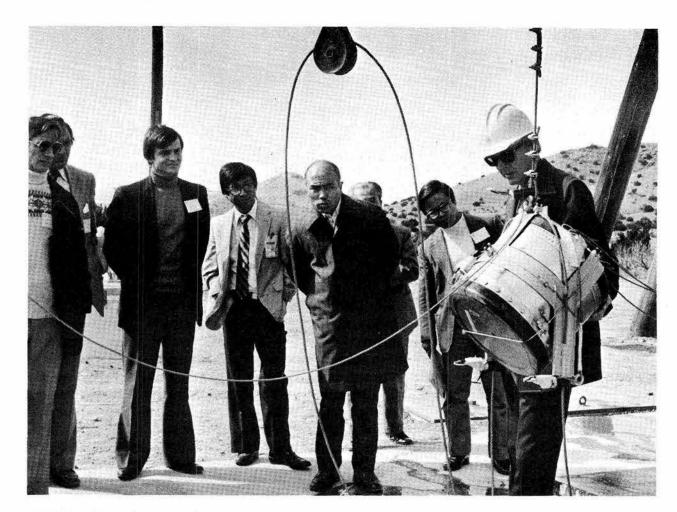
How about Sandia projects?

"SWERVE is one. It's highly maneuverable - a mid-range deliverable vehicle suitable for both moving and stationary targets. DARPA (the Defense Advanced Research Projects Agency) is interested in determining the utility of using it to protect both the continental US. and the fleet at sea against incoming aircraft. SWERVE travels 1000 miles in 15 minutes, much faster than cruise missiles, so it could be used to attack and destroy moving targets at great distances."

How far along is SWERVE?

"After we simulated everything that could be simulated, we launched a SWERVE vehicle on a Strypie booster from Kauai on September 29. It re-entered the atmosphere, leveled off at 25,000 feet and maneuvered according to its program-a complete success.

"There's another program called Cruiser," Don adds, "an outgrowth of



VISITORS from the United States and many other countries were here last week to attend the Sandia-sponsored LAARC International Demonstration, a five-day seminar to demonstrate the LAARC (Lightweight Air-transportable Accident Resistant Container) project and the PAT-2 (Plutonium Air-transportable Model 2) package. The visitors represented, among others, the NRC, DOE, the International Atomic Energy Agency, and foreign Competent Authorities. Here the meeting's coordinator and project engineer, John Andersen (1725), describes rocket pulldown test about to be performed on an LAARC to demonstrate integrity of the container.

SWERVE. It's intended as a kind of lifeboat, a maneuverable craft capable of carrying a man between a space station or the space shuttle and earth. Since the shuttle is a modified aircraft, it could re-enter the atmosphere on its own. But you really wouldn't want to do that unless you had to. Cruiser is a low-cost alternative to bringing the shuttle back to earth because of an emergency involving a single crew member. Several Cruisers could be carried aloft in the bay of the shuttle and used for space rescue work or to check out malfunctioning satellites in orbits different from that of the shuttle."

Is Cruiser a high priority project?

"To the contrary. Right now we're running a feasibility study to make sure all the required technology is available. If the technology is well in hand to build a small, inexpensive space plane, we might be asked to build a vehicle for an unmanned demonstration flight test."

How about the future?

"The things we'll be doing five years from now will be the result of some pretty far out ideas that are just now showing up in paper studies.

Editor's Note: Part I of Exploratory Systems appeared in LAB NEWS, Aug. 22, 1980.]



When old Bowser listens intently and then begins to bark at something you can't see or hear, he just might be issuing an earthquake warning. A UC Riverside geophysicist recently issued the following report: "We were camping in the Mojave Desert to record aftershocks of two quakes in Southern California. Even quakes too small to be felt, signaled only by a click on a seismometer, sparked a chorus of protest from dogs on nearby homesteads.

## **Attention Retirees: Help Wanted**

The Roadrunner Food Bank is looking for a paid executive director to take over its operation here in Albuquerque.

What's a food bank? A food bank receives free foods from the food industry -growers, producers, wholesalers, retailers, vendors. These are given free to non-profit charitable agencies which, in turn, distribute the food to those in need. Food banks got their start in 1976 when federal law made it possible for food firms to get a liberal tax deduction for their donations. Generally, food is donated because its shelf-life is nearly over, or a product has been over-produced, mispacked or mislabelled.

In Albuquerque, the Roadrunner Food Bank has recently been organized, has a place of business, and funding. Titus Scholl, who formerly ran The Storehouse, is interim director until a full-time executive director can be found.

The job calls for a person able to work with a minimum of direction and to relate effectively with people. Responsibilities include soliciting and procuring surplus food; coordinating food distribution; handling the fiscal, personnel and operational management of the Food Bank; recruiting and managing both paid employees and volunteers; and reporting monthly to the Food Bank Board of Directors.

If you're interested or want more information, call Titus Scholl on 255-4712 or the Roadrunner Food Bank President, George Kelley, on 842-5095.

## Across The Sea, By Navy Man-of-War

Most people fly across the ocean but Chuck Grassham (1542) found a novel method—for a civilian, that is. He crossed the Atlantic on the aircraft carrier U.S.S. Saratoga.

"My son Phil is a chief petty officer on the carrier and he invited me. It's a Navy program called Operation Tiger in which male relatives of the crew can travel on specifically designated ships. I flew to Lisbon and then to Malaga where the Tiger Committee—which included my son—met us at the airport. There were 90 of us civilians among several thousand crewmen, and the Navy kept us pretty busy during the 10-day trip from Malaga to Jacksonville—the Saratoga's home port. She's in Philadelphia now, undergoing about three years' refurbishing.

"I slept in the chiefs' quarters—each civilian passenger stayed with his relative. There were tours every day and, of course, air shows. The Saratoga was accompanied by a destroyer, the F.F.G. Talbot, which put on a fire show—shooting off its guns and rockets. The carrier's Marine detachment also impressed us with their close order drills and a demonstration of their own firepower. Which reminds me, the ship was pretty noisy all the time—much noisier than the Vibrator Lab where I work. In fact, many of the crewmen say they have trouble sleeping when they get off the ship because it's too quiet.

#### Check Solar Systems For Fire Hazards

— by Vern Duke, Fire Protection Sandia Plant Engineering

Recently, a fire occurred in a water-cooled, flat-plate solar collector in a home in Boulder, Colorado. Investigators later discovered, within identical collectors not involved in the fire, that foamed plastic insulation had deteriorated and charred. Stagnation temperatures within these collectors when exposed to the sun, but without normal coolant flow, could be expected to range from 250°F to 400°F.

The continued exposure of cellulose materials such as wood, paper and plastics to temperatures that are high but under the ignition point causes degradation, charring and eventual refining of the char to the extent that its ignition temperature is lowered. For example, common woods will ignite if subjected to continuous exposure to temperatures near 200°F for five years. Shorter exposure times are sufficient for ignition if temperatures are higher. This phenomenon helps explain fires at recessed lighting fixtures following the application of additional insulation.

Other potential fire hazards include reflections from curved mirrors, the wrong choice of heat transfer fluids, and inadequate spacing and venting to allow for heat dissipation. The moral: check both commercial and do-it-yourself designs for fire hazard.



CHUCK GRASSHAM (1542) snapped this A-7 Corsair coming in for a landing on the U.S.S. Saratoga. Chuck, whose son is a crew member, was a guest on the carrier during its 10-day voyage from Malaga, Spain, to its home port in Jacksonville, Florida. The Saratoga had just completed three years' service with the Mediterranean 6th Fleet.

"The tours included the engine room—very hot. And I saw their refrigerated food lockers containing 30,000 pounds of hamburger, among other things. There were maintenance shops, dry-cleaners, laundries, a hospital—it had everything, just like a city. The galley reminded me of my army days—same smell and quality of food. Once I even steered the ship—just for a few seconds.

"There are 600 TV sets on board and three channels. One channel constantly gives navigation and weather data along with the captain's Message of the Day. The second channel telecasts from the flight deck, recording landings and takeoffs—

and the third channel shows videotaped programs similar to those on commercial TV. In addition, Hollywood films were shown in the chiefs' mess nightly. And, in Malaga, a representative of the Florida State Highway Patrol boarded the ship and for 10 days showed traffic safety movies and gave safety lectures—just in case we got tired of the other entertainment.

"My wife met us when the Saratoga docked at Jacksonville—she was waiting among the Navy wives. The trip wasn't exactly what you'd call a relaxing ocean cruise, but it was certainly different. Would I sign up for a Navy enlistment? Well, I think I'll stick with Sandia . . ."

## **Solar Tracking Device Patented**

DOE was recently awarded a patent for a solar tracking device invented by Gene Hammons of Electronic and Transport Phenomena in Solids Division 5132.

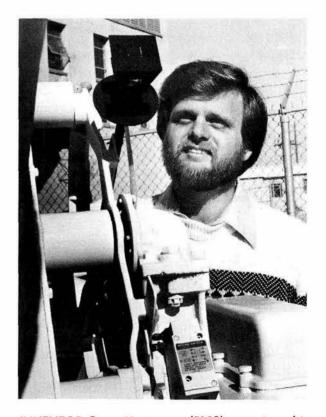
The tracking device, an arrangement of nine small photovoltaic cells, senses the location of the sun and controls drive motors to position a solar collector. The shape of the device is such that four of the eight cells surrounding a center cell are each partially shaded when the collector is property oriented. Until this position is reached, the voltages created by the cells are unequal. The differences in voltages are the signal to the drive motors to move the solar collectors until voltages are equalized.

"It is a relatively simple and inexpensive device," Gene says, "and very effective. It was first used on the Sandia one kilowatt array, a photovoltaic collector incorporating 135 silicon cells and fresnel concentrating lenses. This array received wide attention nationally for its efficient production of one kilowatt of power. The tracking device is also being used on other solar collectors and photovoltaic arrays still under development and testing."

Unique features of the tracking device

-very accurate sun tracking (better than plus or minus one-tenth of a degree on a clear day)

- ability to find the sun even when the collector is aimed away from the sun (such



INVENTOR Gene Hammons (5132) examines his recently patented solar tracking device. Differences in the voltage of nine photovoltaic cells are used to control drive motors to position a solar collector. The collector is properly oriented when voltages in the tracking device cells are equalized.

as repositioning the collector from west to east in the morning)

-automatic shutdown of the driver motors when the sky becomes too cloudy to track the sun (when the clouds disappear, it turns the motors on again).



ALTHOUGH Bill Hereford (1582) appears to be browsing in a headstone sales lot, he's really at the Juan Tabo dam in the far Northeast Heights. They're called "dissipators" and are designed to break up the flow of floodwaters.

**Our Town** 

## **Bill Hereford Doesn't Like Floods**

Despite Albuquerque's sunny, dry climate, it does occasionally rain here. And when it does, it's usually too much in too short a time. So, to prevent our neighborhoods from being washed away during these infrequent spells of inclement weather, the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) was established back in 1963.

Bill Hereford (1582) has served on the board since 1972 when he was appointed by Governor Bruce King to succeed W. C. Scrivner who was transferring to Livermore. In 1974 Bill was elected to the post by Albuquerque and Bernalillo County voters. He has decided to retire from AMAFCA effective Dec. 31. "After serving for eight years, I feel it's time to step down," Bill tells us.

What does the Flood Control Authority do? "Historically, stormwater flowed from the mountains across the mesas to the Rio Grande Valley, and when the area was sparsely populated it didn't much matter that large areas were flooded," explains Bill. "But when people started moving here, these same stormwaters posed a danger to life and property. Up to the early '60s, there really was no flood control—but the city's growth meant greater runoff problems."

In the late '60s, AMAFCA assisted the Corps of Engineers in building the North and South Diversion Channels. "You see," Bill says, "we're responsible for the major

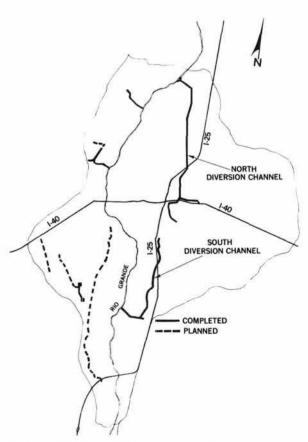
arroyos in much the same way that the state is responsible for the Interstates, while the counties maintain the secondary roads. The city and AMAFCA coordinate their projects and both conform to the master plan—our projects generally impact across city-county boundaries."

The AMAFCA Board consists of five members. Currently, there are two engineers—one from Sandia and the other a land developer, two bankers, and a non-professional representative from the community. Each board member's term of office is six years.

We asked Bill where new flood control projects would be located. "Throughout the community. Specifically, construction projects are planned for the Northwest, South Valley, Southeast, and far Northeast Heights. Each project is tentatively scheduled for construction within the next five years. If voter approved, AMAFCA plans to issue bonds in two series, in early 1981 and late 1983.

"We've tried to apply the idea of multiple use to our projects," Bill continues. "For instance, the new Paseo del Nordeste bikeway along the drainage ditch provides safe passage for cyclists."

Urbanization changes the natural setting, and flood control projects contribute to this change. However, as Bill points out, such projects need not be eyesores: they can be aesthetic and recreational assets, such as the flood control measures built



OUTLINE MAP of Albuquerque shows existing North and South Diversion Channels (solid lines). The proposed channels (broken lines) slated for the southwest section of the city are the subject of a bond issue to be voted on at the Nov. 4 general election.

into Ladera Golf Course, Matheson Park, and Academy Heights Park.

"And don't forget to vote on Nov. 4 on the bond issues and for a new board member," Bill reminds us. The bond issue will be located near the lower right corner of the voting machine. "It might be easy to overlook us in all the excitement of the presidential election, but flood control is important, too—for all of us."

## Adobe Hacienda Born Again

Recently, the home of Shirley and Neith Pollard (1554) was entered in the National Registry of Historic Places and in the State of New Mexico Registry of Cultural Properties.

They live in a 6000-sq.-ft. adobe mansion built in 1860 by Felipe Chavez, son of a New Mexico territorial governor who became the state's leading merchant. He was known as "El Millonario."

The house is one block off Main Street in downtown Belen. "It's great," Neith says, "the neighboring business shuts down at dark and we enjoy quiet, relaxing evenings."

The couple also enjoys living in an outstanding example of New Mexico Territorial architecture-the house has massive adobe walls, a splendid central room called a sala, huge ceiling beams, original wood floors, new floors of polished brick and a direct touch with the historical past.

"Old Felipe had business interests that ranged from New York, St. Louis, Kansas City and New Orleans banking to mines in Mexico," Neith says. "He had a mercantile store here in Belen and wagon freight lines that ran from Santa Fe to Chihuahua. He was a very rich man in his time. There are stories about how he counted, cleaned and polished his piles of gold and silver coins here in the patio. There's a tree out there, too-a huge cottonwood-that's called 'the hanging tree' where Felipe supposedly ended the careers of stage coach or freight line robbers."

Felipe died in 1905, and the house went to his son. It was sold several times and, in 1941, a fire destroyed the roof over the sala and much of the interior wood. In 1945, the ruin was converted into six apartments. The sala area became a central patio. After 10 years, the house fell into general disrepair and was "a mess" when Gordon Snidow, a former Sandia Labs tech artist, purchased it in 1969.

Gordon ripped out all but the original



THE GRAND SALA of the former Chaves mansion is this huge room with a 19-ft. ceiling, massive fireplace, brick floors covered with Indian rugs, and a balcony. Ten 20-ft.-sq. rooms, all with 30-in.-thick adobe walls, surround this central area.

adobe walls (30" thick) and started an extensive restoration. Neith bought it two years ago and continues the restoration.

"Most of what I've done doesn't show," Neith says. "I've added wiring to the place and repaired plumbing. I hung a 170-lb. Mexican-style chandelier from the 19-ft. ceiling of the sala and added some old-fashioned ceiling fans. I fixed up the old servants' quarters in the back into a serviceable shop."

Considerable care has gone into the furnishings and decorations of the house. From early family pictures on the wall in Neith's study, the Indian rugs on the floor, the massive maple bed in the master bedroom, outstanding Indian pottery in niches in the walls, to the gleaming Mexican tile in the kitchen, the decor works—the house has a quiet comfort.

"Plenty of room for the grandchildren,"

Shirley says, "and they love the placeespecially the ghost."

"The ghost is not malicious," Neith adds quickly. "She's merely a nuisance. We find doors open that we know we locked, windows letting in cold air that were closed earlier, the setting on the alarm radio switched so that we're up at four in the morning getting ready to go to workthings like that.'

Neith figures that the ghost is Marguerita, daughter of old Felipe who died before he did and whose children were left out of the old man's will. "She's a little irritated," Neith says. "Our friends are amused at the stories, and some of them linger a little longer in some of the gloomier parts of the house-the unrestored rooms - where we figure she stays."

Neith is retiring in December after 28 years with Sandia. He plans to continue the restoration-finish the interior, repair the roof, outside walls and stucco, rebuild the patio walls, landscape the acre or more of grounds, fix the . . . .

"The list goes on and on," Neith smiles. "I'll be busy for a long time."

#### **Congratulations**

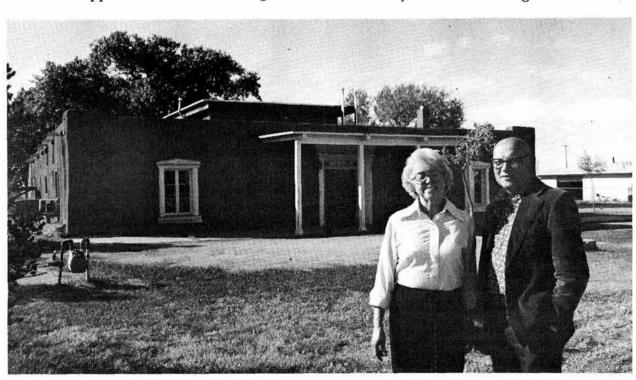
Mr. and Mrs. Douglas Bloomquist

(5131), a son, Eric Douglas, Sept. 27. Mr. and Mrs. Douglas Pastor (1137), a daughter, Angela, Oct. 15.

Mr. and Mrs. David Carlson (4412), a daughter, Tracy Michelle, Oct. 10.



Contenido, A Mexico City magazine, informs us of the Mexican NASA—the National Commission of Outer Space or CNEE. The article observes that the space agency's demise in 1977 failed to cause consternation in the international scientific community. CNEE did, however, continues the article, "establish a notable record in the global bureaucratic Olympics: of five employees it started with (in 1968), 15 years later there were 130-an increase of 2600% . . . During its lifetime the agency built and launched eight small rockets spending almost two million dollars of the Mexican taxpayers' money."



THE FELIPE CHAVES MANSION in downtown Belen, built in 1860 by New Mexico's leading merchant, is now on both state and national registries as an historic property. It is the home of Shirley and Neith

## A 'Best-Of-Show' At State Fair

Entering a cooking contest during Chile Day activities at the New Mexico State Fair was, for Robert Vasquez (4233), a test. "Whenever we've had a potluck meal at work," Robert says, "I prepared enchiladas. The crew I work with kept telling me I was a good cook, so I entered the contest to see if the experts agreed."

Well, the experts (judges) operate on Don Quixote's maxim: the proof of the pudding is in the eating. And, they agreed! Robert's creation—Carne Adovada Burrito Casserole—won first place in the chile meat casserole category as well as "Best of Show" overall. The latter competition included winners from all categories.

"I started cooking when I was about eight years old," Robert says. "I grew up in a family where my mother and the older children worked to help support the family. I stayed home to care for my younger brother and I had to cook for him.

"Nowadays, I'm trying to learn to cook all the traditional dishes evolving from the Spanish, Mexican and Indian influences in the Southwest. I butcher my own hogs and make most of the sausage we use. And I like to experiment when I cook; it's hard for me to write a recipe because I like to use a 'dab' of this or a 'pinch' of that as I cook."

Robert's winning dish uses a combination of both red and green chile sauces, not a common procedure. "My favorite way to cook pork is with green chile," Robert says, "and I like carne adovada and burritos. When I put them all together, my wife and children said the dish was a 'winner.'"

We asked Robert for some of his kitchen tips:

"Avoid using a fork or sharp utensil—I don't like to see a piece of meat punctured.



NUMERO UNO—As a first-time contestant, Robert Vasquez took the blue ribbon and overall first place in the Chile Day cooking contest at the recent State Fair. His secret: take time, experiment.

Start with good meat and trim the fat from pork. Also, start with good chile. I seldom use chile powder. The blender is good for making red chile but I like to crush the chile by hand. (Don't do this if you have a cut or scratch.) Be inventive and experiment.

"The State Fair contest was fun (I was the only male cook). I've started experimenting with some new recipes, and I'm looking forward to other competitions," Robert says.

Robert's recipe follows. He cautions that the green chile sauce should be poured over the burritos just before serving so it won't make the tortillas soggy. Allow plenty of time for preparation.

### Fun & Games

Triathlon—This takes place this weekend, Sunday, Nov. 2, with liftoff at 8 a.m. just west of the Olympic pool. Entries should be submitted today, Oct. 31, to LAB NEWS (which has entry forms). Late entries cost an extra buck.

Backgammon—C-Club rec manager Tom Lenz says that backgammoners and their boards ought to show up any Tuesday after work at the C-Club happy hour, there to find one or more playing partners with whom to pursue fun & games. And maybe even play a little backgammon.

Gym not-so-dandy—The east gym basketball and raquetball courts, women's locker room, and exercise room will be closed most of November while the floors are being refurbished.

Tennis—In the Sandia Tennis Association's recent tournament, Tony Stevens and Toby Perea took the men's doubles, Kathie Hiebert and Chris Morgan the women's doubles, and Jay Volkman and Jenny Pritchett the mixed doubles.

Running clinic—This is being held tomorrow, Nov. 1, from 8 to 11 a.m. at the C-Club, and UNM's Klaus Weber will preside. He'll talk about endurance, stretching, types of training and the physiological aspects of running. There will be a Q&A session, plus an opportunity to participate in a workout with Klaus. Cost is a buck, and you get doughnuts and coffee too.

#### CARNE ADOVADA BURRITO CASSEROLE

Carne Adovada

5 lbs. lean pork 10 pods red chile 1 C. water 1/4 tsp. monosodium glutamate (MSG) Garlic salt to taste

Mix, in a blender or by hand, the red chile pods, water, MSG and garlic salt to make a medium paste. Prepare \%3 of the meat by slicing very thinly (easier if meat is partially frozen). Save remainder of meat for green chile sauce. Marinate the sliced pork in red chile sauce at least 2 hours. In frying pan, cook marinated meat slowly, being careful not to scorch. Do not simmer, but cook until liquid has evaporated and meat is well done. Allow to cool before burritos are prepared.

#### Tortillas

1½ C. white flour ½ tsp. baking powder 1/8 tsp. salt

1 Tbs. (heaping) unmelted lard ½ C. water

Mix into dough the flour, baking powder, salt, lard and water. If dough is sticky, add extra flour, 1 tsp. at a time, until smooth. Let stand 5 mins. Separate and form into a dozen small balls. Roll out into round tortillas and fry on unoiled iron skillet or griddle on high heat until lightly browned. Turn and brown on other side. Cool.

#### Green Chile Salsa

Lean pork (remaining third of 5 lbs.)

2 Tbs. white flour

3 Tbs. meat drippings

14 pods green chile, cooked, peeled and chopped

1½ C. water ¼ tsp. MSG Garlic salt to taste Salt to taste

Cube the meat and fry in a medium-sized pan without oil. When meat is brown, push to one side of pan and brown the flour in the drippings, being careful not to burn the flour. When browned, mix in the meat, chile and water (do not make too thin). Bring to a boil and add MSG, garlic salt and salt to taste. Lower heat and simmer 15-20 minutes.

To make Burrito Casserole: Spread cool carne adovada over the cool tortilla. Fold the ends of the tortilla in on four opposite sides and then fold in the middle (to keep the meat from spilling out). Place side-by-side in a large pan. Sprinkle 1 lb. grated cheddar cheese over burritos and place in oven, pre-heated to 350°, just long enough for cheese to start melting. Pour green chile sauce over the top and serve immediately, before tortillas get soggy. Garnish with chopped tomatoes, shredded lettuce and chopped onions if desired.

## **Events Calendar**

Oct. 31, No. 1-2, 7-9—"The Three Penny Opera," U of A Stage I, 8 p.m., 831-1111.

Nov. 2-16—(except Mondays) "Fiber Dimensions II," exhibit & sale, Las Aranas Spinners & Weavers Guild, Fine Arts Gallery, State Fairgrounds, 2-5 p.m.

Nov. 2-Jan. 4, 1981—Here & Now: 35 Artists in New Mexico, Albuquerque Museum, 2000 Mountain Rd. NW (hours: Tues.-Fri., 10-5, S&S, 1-5), 766-7392.

Nov. 6—Hollyberry Fair, A Christmas Bazaar, 9 a.m.-3 p.m., lunch from 11:30 to 1, free nursery, St. Mark's On The Mesa Episcopal Church, 431 Richmond Pl. NE.

Nov. 7-8—"Die Fledermaus," Albuquerque Opera Theatre, 8:15 p.m., Popejoy, 277-3121.

Nov. 9—Irish Light Orchestra of Dublin, 8:15 p.m., Popejoy.

Nov. 10—The Audubon Wildlife Film Series: "Okefenokee," 7:30 p.m., Popejoy.

Nov. 13-14—NM Symphony Orchestra, 8:15 p.m., Popejoy.

Nov. 14-16—Southwest Arts & Crafts Festival, Ag. Exhibit Hall, State Fairgrounds, 881-2777.



HOW MANY do you recognize? Here's another photo from the LAB NEWS historical file that dates back to October, 1958. This group of Sandians was attending a conference at Bishop's Lodge in Santa Fe. IDs are given below. (Seven are still on roll.)

## Take Note

Baritone Carlos Serrano will give an informal performance in theater Bldg. 815 on Thursday, Nov. 13, at 12:15 p.m. Presented by the New Mexico Symphony and sponsored by the Levi Strauss Foundation, Carlos is one of a number of "affiliate artists" who work and are supported under a national program to encourage young performing artists. He has already performed with many opera companies in this country. Brown baggers are welcomed for his visit to the Labs, and exchanges between artist and audience are encouraged.

An art exhibition of works produced by artists now living in New Mexico opens in the east gallery of the Albuquerque Museum this Sunday, Nov. 2. The show continues through Jan. 4. It consists of a multi-media display of 78 works of art which include wood and steel sculptures, paintings, serigraphs, weaving, and Polaroid photographs. Among the 35 artists featured are Nick Abdalla, Clinton Adams, T. C. Cannon, Betty Hahn, Luis Jiminez, Raymond Johnson and Georgia O'Keeffe.

The Treasury Dept. has raised the interest rate on all new issues of Bonds by one percent, effective Nov. 1. In addition, all Series E, EE, H and HH Bonds and Savings Notes now outstanding have had their interim yields increased by one percent to their next maturity. The new interest rate is eight percent for Series EE Bonds held to a nine-year maturity. Interim yields on these Bonds have also been improved to 5.5 percent after one year and 7.5 percent after five years. Series HH Bonds will now earn 7.5 percent to their 10-year maturity.

If you need a lift to Areas II, III, IV, and V, there's a taxi service now providing tour runs per day to these locations from Area I. Pick-up points are Gate 1, the north side of Bldg. 839, and Gate 10. Signs at the pick-up points give the schedule, or you may call 4-8040 for information.

A press release from Albuquerque Cable TV notes that they plan live coverage of Voyager 1's upclose look at the planet Saturn on Nov. 11, 12 and 13. "This incredible journey will take Voyager 1 past the moons Titan and Rhea as Voyager travels through the awe-inspiring ring plane of Saturn," so states the release. The transmission goes to ACTV subscribers on channel 2 of their converter boxes. Coverage runs from 12 noon to 2 p.m. on Nov. 11, 2:55 to 6 p.m. on Nov. 12, and 12 noon to 1 p.m. on Nov. 13.

The Audubon Wildlife Film Series begins its 11th season at Popejoy Hall on Nov. 10 with "Okefenokee, Land of Trembling Earth." Other films included in the series are: "The National Wildlife Refuge System," Dec. 10; "Kookaburra Country," Jan. 12; "Another Penguin Summer," Feb. 11; and "Wilderness Trails," March 10. These nature films, narrated by the photographers who made them, are co-sponsored by Popejoy Hall and the Central New Mexico Audubon Society. For tickets and further information, call Jim Karo (2432).

The Slavic Club of Albuquerque is holding a dinner and dance at the Coronado Club on Nov. 29. The Frank Tomsic Slavic Band from Denver will play for dancing from 8:30 until 1; dinner begins at 6:30. Fred Bentz (3713) has tickets: dinner & dance, \$11 per person; dance only, \$5; reservations needed by Nov. 15.

Annually, Elks Lodge 461 in Albuquerque conducts a deerhide drive for the benefit of patients at the Veterans Hospital. It works this way: 55-gallon drums are set up as collection drops throughout the city for hunters; the hides are then collected, sent to a tannery and traded for leather. The leather goes to the hospital where it is used by patients in rehabilitation and recreational programs.

A collection drum has been placed on base on Wyoming Blvd. just south of the fire station. For more information, call the Elks on 243-7895.

The 21st annual CQ-WE amateur radio contest will be held on Nov. 8 & 9. This contest is open to all radio amateurs employed or retired from Sandia, Western Electric, AT&T, Bell Labs, and the Bell System operating companies. For information, call Pete Havey at 4-5824.

IDENTIFICATION of Bishop's Lodge group photo. Front row, Frank Taylor, Frank Bell, Bill Jenkins, John Cody, Charles Runyan, Charley Olajos, Bill O'Neill, Les Wright, Ray Schultz, Frank Grubbs, Bob Porter. Back row, Ray Brin, Alan Pope, Andy Walker (AEC), Tom Marker, Lloyd Fuller, John Eckhart, Bob Flaxbart, Frank Moon, Bill Funk.

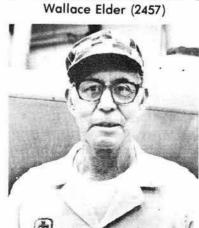
## Retiring





Clemente Valencia (3612)

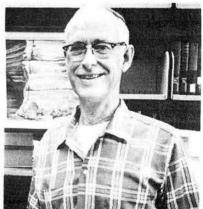




Manuel Martinez (1473)



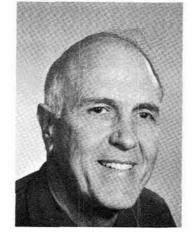
Ervin Bareta (1485



George Steck (5641)

## **MILEPOSTS** LAB NEWS

**OCTOBER 1980** 

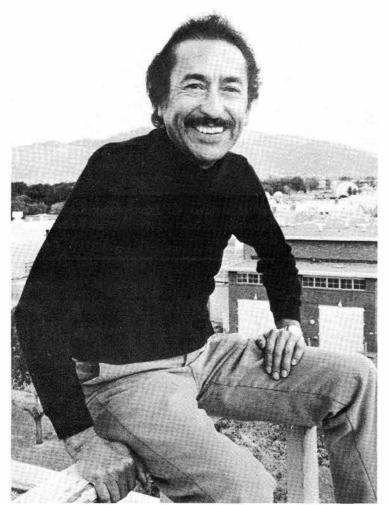


Robert Randall - 2323

25



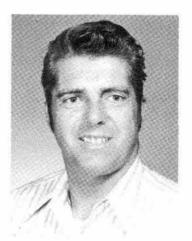
Manuel Aguilar - 3423



Eddie Rael - 1482



James Fisher - 2436



James Wright - 1243

20



Ernest Lovato - 1482

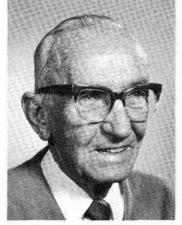


Dale Shenk - 2457

30



Leroy Henderson - 1556



John Callahan - 3723

Charles Randall - 3423

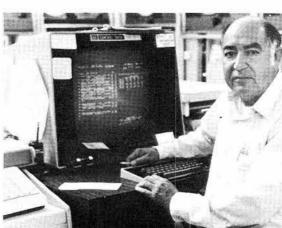


Richard Demmel - 3243



Carl King - 3432

Tom Linnerooth - 2113



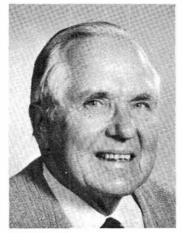
15

Wilfred Otero - 2632





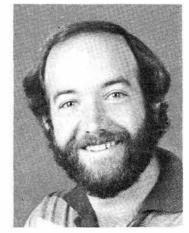
25



Allan Beck - 5611



Dorothy Taylor - 3721



Steve Haney - 8347

## My Favorite Old Photo

[Got an old photo that means a lot to you? Bring it over to LAB NEWS and tell us about it.]



THE OCCASION is the celebration of statehood for New Mexico in 1912. The house is at 425 Pacific SW here in Albuquerque. That's my mother and father in the back between the doorways and surrounded by my aunts, uncles, older brothers and sisters, and cousins. My father and his two brothers married three sisters. I'm the youngest of 11 children and I have a lot of double cousins. (Chris Padilla-

#### JUNK.GOODIES.TRASH.ANTIQUES.KLUNKERS.CREAM PUFFS.HOUSES.HOVELS.LOST.FOUND.WANTED.& THINGS

#### **CLASSIFIED ADVERTISING**

Deadline: Friday noon prior to week of publication unless changed by holiday. Mail to: Div. 3162 (M0125).

#### RULES

- 1. Limit 20 words.
- One ad per issue per category.
   Submit in writing. No phone-ins.
- Use home telephone numbers.
- For active and retired Sandians and DOE employees.
- No commercial ads, please.
- 7. No more than two insertions of same ad.
- Include name & organization.
- Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin

#### **MISCELLANEOUS**

- CAMPER SHELL for short wide bed, paneled, insulated, lights, curtains, fitted carpet, \$100 firm. Horner,
- DINING ROOM SET: solid pine Ethan Allen, buffet, hutch, table, 4 side chairs, 2 captain's chairs, best offer. Yu, 268-5355.
- GREENHOUSE fiberglass, 21/2 rolls. Edenburn, 869-2911.
- TILLER, rear tine, 8 hp Roto Hoe chain drive, w/modifications, \$600; 8 hp front tine tiller, \$200. Martinez,
- 865-6983. WILCOX-GAY reel & disc recorder w/PA system, \$125; oak bookcase, 14"x42"x30"; books, wide variety including classics. Porter, 884-4577. 14" FORD mag wheels, 3 ea., all for
- \$20. Underhill, 294-5774 after 6. FORD overhead loader, \$450; small cookstove, \$125; trailer built to haul antique cars, \$300; camper shell, LWB, as is, \$50. Jolly,
- 1-684-2430 (Canjilon). RECLINING CHAIR & hassock, adjustable, newly upholstered in white vinyl, can be used as rocker, \$135. Steele, 877-1225.

- SEARS metal building, Lexington model, 10'x10' w/gambrel roof, new, still packaged, orig. price \$359, sell for \$295. Oravecz, 281-3667.
- CARPET, blue/green, looped pile, 16'x22' minus register/fp cutouts, \$30. Yarrington, 266-2431.
- GE freestanding elec. range & oven, older model, \$50. Marlman, 883-8660. DINETTE TABLE, 48" round, white onyx top, w/6 swivel chairs, tangerine color, Kays Furniture, \$165. Alvino, 255-6339.
- HUMMEL PLATES & BELLS. Fitz-
- gerald, 265-3055. PAIR used Michelin tires, 225-15. Grant, 255-6105.
- **DUAL AIR HORNS, complete 12 VDC** system for car or motorcycle, \$12; Genie garage door opener trans-mitter, \$12. Dippold, 821-5750.
- WURLITZER spinet piano & bench, \$550. Brown, 884-4735. GOLF CLUBS: 5 irons, 3 woods, golf
- bag, cart, \$40. Smiel, 865-9081. DOG KENNEL & HOUSE: kennel is
- 6½'x17'x6' chain link fence, house for Ig. dog. Baughman, 884-5082.
- FULL CHOKE, 30", vent rib sight, 12 gauge barrel for Remington model 870, \$65. Seamons, 298-5683. GE stove, elec., self-cleaning oven,
- \$90. Saavedra, 266-6997. KITTENS, free, 2 mos. old. Barsis, 293-5347 after 5:30.
- SNOW TIRES, B78-13 (6.50-13), one mounted on Pinto rim, \$40. Curtis, 881-2440
- ORCHIDS, cut blooms \$2 to \$4 ea., depending on variety & color. Swan-\$29 DISCOUNT TICKET to Los An-
- geles, leave Nov. 5. Martinez, 294-8134 or 877-2116. SKI BOOTS, Orange Hanson, men's
- size 10-11, used about 5 times, \$80. Grimes, 299-2548. THREE LOBO basketball season
- tickets. Garcia, 881-4296. STEREO, Electrophonic AM-FM-8 track play/record, direct or w/ microphone, BSR turntable, bookshelf speakers, \$125. Lauten-schleger, 266-4482.
- PIANO, small spinet, 3-yr.-old Melodigrand, recently tuned, \$600. Humphreys, 292-5819.
- SKIS, 200cm w/Cubco bindings, good for beginning adult, \$10; Caber boots, 10½, \$10; Cubco bindings, \$5. Shunny, 265-1620.

- WARDS True Cold brown refrigerator w/frost-free freezer, 12.5 cu. ft., \$150. Weisuhn, 293-2166.
- REMINGTON 30-06 Model 760 carbine, pump action, 4x Weaver scope, \$220; 4 fancy wheel covers, 14", \$20. Stuart, 299-9190.
- DINING SET, pecan formica table extends to 72", 6 brown alligator vinyl swivel chairs on rollers, \$290. Scheibner, 299-5993.
- MOTORCYCLE BUMPER RACK, \$15; ski boots, size 6, \$15; ski pants, youth ages 10-14, waterproof. Arana, 299-1214.
- DOUBLE BED, Posturepedic mattress, box springs & frame, \$100. Bell, 266-4722.
- NIKON FT, Nikkormat FT2, 24mm f2.8, 50mm f1.4, 36-100 f3.5 zoom, 200mm f3.5 Vivitar, shoe extension tubes, filters, \$650. Harrah, 298-1781.
- ANDIRONS and firescreens: screens are 3-fold & ensemble type, brass trim and black mesh wire, \$15 ea. Shew, 299-8045.
- STAGE amplifier, Sunn 410, solid state, 110 watts input, 50 watts output, barely used, \$395. Baxter, 344-7601.
- F.N. (Browning) .270 cal. rifle, Redfield 3-9 scope. Nichols, 296-8259.
- FRANCISCAN Jamoca stoneware, 4 place settings, new, presently selling at American for \$134, will sell at our cost \$75. Riley, 821-6431. STEREO, Juliette compact, AM-FM 8-track play/record direct or microphones, auto. turntable, lg. bookshelf speakers, \$75. Mondy, 292-
- TWIN BED w/mattress; fold-up cot; 19" B/W console TV. Moss, 296-4109. HOTPOINT refrig/freezer, frost free, ice maker, 17.8 cu. ft., 6 mos. old, white w/brown trim, \$400; Catalina washer, \$100; GE elec. dryer, \$100.
- Alexander, 293-1132. COLOR TV, 19" portable & 25" console. McConnell, 268-3109.
- OLD ENGLISH bulldog puppies, 4 wks. old, AKC reg., select now, half down, remainder when \$550. Smatana, 299-6278.
- SWING SET, \$10. Marder, 268-9643. TRUCKER 200cm Lightedge cross country skis w/bindings, \$80; cartop carrier, \$5; 6/0 Birch bifold doors, \$30; solid ox welder, \$12; 414" import pickup rims, \$15. Madsen, 294-3235.

- LADY'S citrine quartz & diamond ring, size 7, free-style band design, as
- praised at \$3550. Hatcher, 266-0932. TREES: cottonless cottonwood, catalpa, purple leaf plum, crab apple, locust & Russian olive, home
- grown, you dig. Sparks, 898-1252.
  78 MAGIC CHEF free standing gas stove, \$150, will deliver. Kovacic, 281-1754.
- ORGAN, Wurlitzer, dbl. keyboard w/ foot pedals, \$265. Armijo, 256-7129 after 5.
- 201/3 YARDS shag carpet, off-white;
- Shetland floor polisher & buffer. Candelaria, 294-7242.

  TOW BAR, HD, \$50; air hose, 300 psi, %" ID, 5/8" OD, w/fittings, about 43 feet, \$30. Marchi, 299-3959. LIGHT DUTY boat trailer, \$150. Souder, 281-3121.
- ADC speakers, \$100/pr.; 1/2 hp jet pump, \$40; storage tank \$20; two .22 rifles; Hotpoint elec. range, \$85; CB radio \$50. Brown, 873-0401.

#### TRANSPORTATION

- BOYS Schwinn dirt bike, \$25. Pickard,
- 70 YAMAHA CT1, 175cc, \$275. Healer, 74 CORVETTE T-top, AC, black in-
- terior, T/A radials, luggage rack. Perryman, 294-6113. 74 VW Dasher, \$1895. Konkel, 299-
- 5108. 10-SPEED BICYCLE, 19" frame, Follis mixte, virtually new, \$75. Calek, 255-9765
- 72 VW sq. bk., 16,500 miles on new engine, Sears best tires & Diehard battery, \$1500 or best offer by Dec. 1. Grimes, 299-2548.
- MOTORCYCLE 90 Suzuki, for youth age 10-16, 2 helmets, consider gun in grade: 30-30, .308, .243, 6mm. Arana, 299-1214.
- 76 EL DORADO mini-motor home, 23', Ford chassis, 460 Ford engine, 26,000 miles. Reger, 268-9358. ONE QUARTER SHARE in 1971 Bel-
- lanca Citabria, \$2500. Reed, 884-8643. 76 HONDA CB360T, low mileage, 50 + mpg, \$850 or best offer. Zirzow,
- 822-1376 after 5. SCHWINN girl's bike, medium size, \$20. Hall, 298-8617.

#### REAL ESTATE

- PASSIVE SOLAR HOME, 2200 sq. ft. in Cedar Crest, one acre adjoining bird refuge, community water, \$80,000. Henning-Sachs, 266-9841.
- ONE ACRE in Los Lunas, North El Cerro Loop. Gallegos, 266-8884 after 5.
- 70 DBL. WIDE MH, 20x50 2 bdr., 1% bath, new carpet, new disp., wash/dryer, dwasher, full-length awn., 10x6 metal storage, set in SE adult park, \$13,500, negotiable. Tafoya, 242-0294.
- LOT near Edgewood w/old Highway 66 frontage, 3 acres, \$3000/acre. Reed, 884-8643.
- 5-BDR. HOUSE, Paradise Hills, 2200 sq. ft. + 2-car garage, corner lot, \$57,700. Skender, 898-5647.
- 78 14x70 MOBILE HOME, 2 blks from Base, fully furnished, \$1500 & take over payments. Jeys, 293-4400.

#### WANTED

- CEMENT MIXER, will buy or rent. Neal, 299-3587.
- OLD MARBLES, shooters, taws, ee-dads, clays, steelies, unusual kinds & variety. O'Bryant, 268-9049. RENT travel trailer or tent trailer from 11/10/80 to 11/17/80. Johnston, 869-3196.
- BED, trundle, ranch oak, medium SMALL car or pickup suitable for college student. Coleman, 884-5009. OLD GRAPE PRESS. Harrison, 883-
- 5411 after 5. EXERCISE BICYCLE. Bauhs, 281-3497. ROBOTS or any space toys, tin or plastic, need not be working. Pritchard, 298-0089.
- VOLKSWAGEN, condition not important. Sparks, 898-1252.

#### WORK WANTED

YOUNG MAN willing to house sit, references provided. Dancy, 296-

#### SHARE-A-RIDE

THIRD PERSON for car pool from near San Pedro & Constitution to Tech Area I. Fite, 255-6943.

#### **Coronado Club Activities**

## Spooks Tonight, Frogs Tomorrow

TONIGHT at Happy Hour, spooks, goblins and assorted witches have their choice of red snapper or New York strip steak while a group called Together holds the bandstand. On Friday, Nov. 7, prime rib au jus is the buffet feature. Pres and the 66 Trio play for dancing. Pres is one of the finest tenor sax men in the city and plays a swinging variety of jazz classics along with the danceable new stuff. Happy Hours start right after work on Fridays and run until midnight with special prices (cheap) in effect all evening. To reserve buffet tickets, call 265-6791 by mid-week.

TOMORROW is Variety Night at the Club, which means that a selection of tasty, inexpensive sandwiches and an entree special are available at 7, followed by live entertainment and a movie. Admission is free. A puppet show featuring a couple of celebrated frogs—Freeda & Floppo—performing with Loren Kahn Kahn and the Bag Show take care of the live portion of the show tomorrow. The movie is "Snowball Express" with a lot of comedy and an exciting ski mobile chase through the Rockies.

ATTENTION SQUARE DANCERS—Coronado Grandsquares Square Dance Club is having a membership drive during November. If you are currently a member of the Coronado Club or are eligible to become one, you are invited to join the group Monday nights free of charge during November. If you're feeling a bit rusty, John Lewin offers a chance to get back in swing with workshops from 7 to 8 p.m. followed by Club dancing from 8 to 10. Teenage couples are welcome. Contact Marv and Nadyne Plugge at 299-5634 for more info.





SMALL WORLD—After LAB NEWS ran its story about Debbie Shepperd (1111) and jazzercise, Charles Clark (1223) showed up on our doorstep exclaiming, "Hey, Debbie and my daughter Carol have to be twins!" So we got the two together with this result. Carol (at left) teaches school in Moriarty.

A COUNTRY WESTERN dance class sponsored by the Club filled up immediately, so another is planned for January. To avoid that left-out feeling, leave your name at the Club office (call 265-6791) and you'll be contacted when the new class starts.

SANADO WOMEN meet Tuesday, Nov. 11, at noon for a business meeting and luncheon. Speaker is Francine Neff, former Treasurer of the United States and currently with the Rio Grande Valley Bank. Call Shirley Forbes, 296-4539, by Nov. 5 for reservations.

TRAVEL—Space is still available on the holiday bus tour to Anaheim, Calif., Dec. 28-Jan. 4. This eight-day package includes a little of everything—Rose Bowl parade, Disneyland, Wild Animal Safari, Grand Canyon—and costs \$315. A deposit of \$150 is required now with the remainder due Dec. 1. Pre-trip meeting is set Dec. 8 at 7:30 p.m. at the Club.

Two air/sea cruise packages are available. Sail out of Miami on the *Carnivale* (Dec. 13-21) for \$780 (category 4) or out of San Juan on the *Amerikanis* (Jan. 3-10) for \$1125 (category 6).

Travel Director Frank Biggs (4231) is planning next year's tours now—see him in the Club lobby tonight between 6 and 7 with your travel requests or suggestions.



RETIREE Liz Tucker, who left the Labs in June 1976 after 20 years in Medical, Industrial Hygiene and Environmental Health, is the new owner of The Ice Cream Tree in downtown Los Lunas. The store is an honest-to-goodness old-fashioned ice cream parlor where families enjoy sandwiches, ice cream cones and real milk shakes. After living four years on Palomas Creek 10 miles from T or C, Liz became lonesome for her grandchildren in Los Lunas. Now she is a very popular grandmother.

## **Commuting Notes**







Sandians who live in the communities south of Albuquerque are reminded of the commuter bus service available in that area. One bus originates in Belen and serves the communities on the west side of the Rio Grande. The second starts at Valencia and services the areas on the east side of the river.

Sandians are dropped off and picked up inside the Tech Area. Fares are \$2.50 or \$3.00 per round trip, depending on distance traveled, with a 20-ride pass. The buses are not limited to Sandia employees; anyone working on KAFB may use them. For more information, dial 4-RIDE.